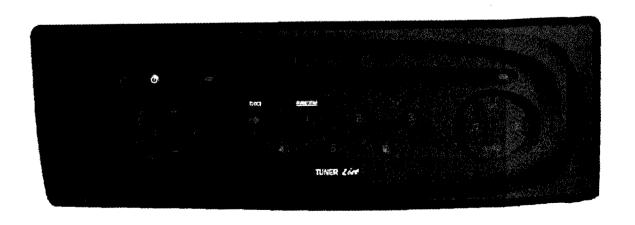


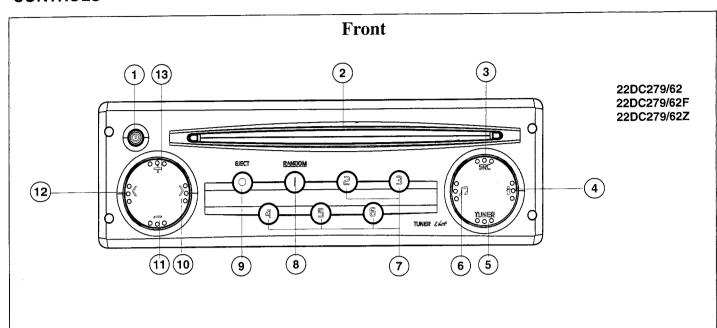
Service Manual

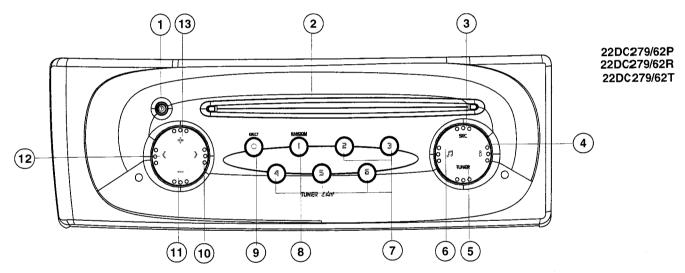




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CONTROLS





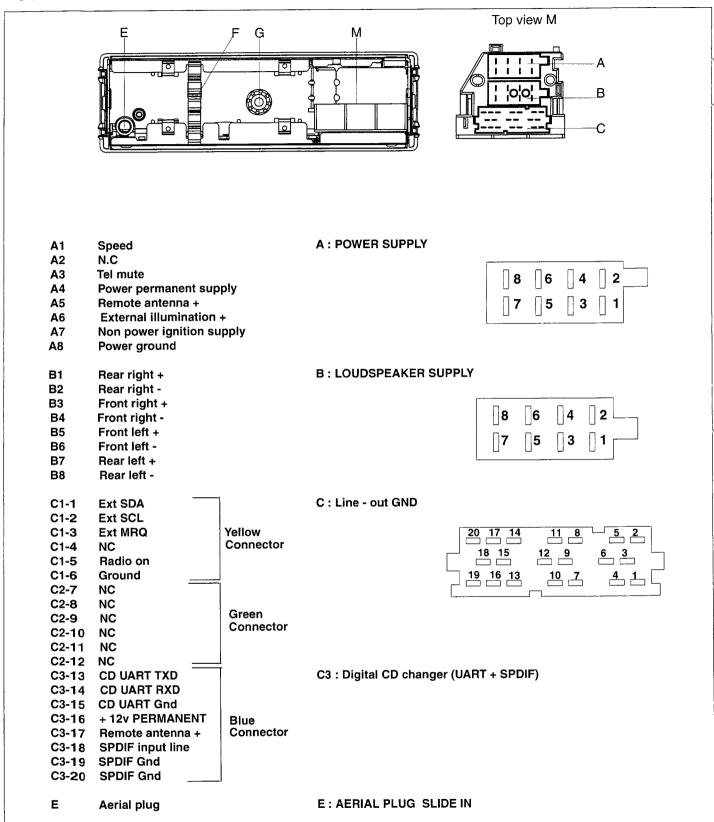
- 1 ON/OFF
- 2 DISK OPENING
- 3 SOURCE
- 4 INFO
- 5 TUNER
- 6 BASS/TREBLE BAL/FADER
- 7 PRESET 2,3,4,5,6
- 8 PRESET 1 / RANDOM
- 9 EJECT DISK BUTTON
- 10 SEARCH UP
- 11 VOL -
- 12 SEARCH DOWN
- 13 VOL +

22DC279/62...

CONNECTIONS

F

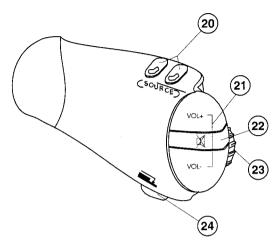
Fastening cable



22DC279/62...

G: Buffer mounting

REMOTE CONTROL



20	Change waveband/source								
21	Vol , Bass, Treble, Balance, Fader + and - when corresponding function activated								
22	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	All others modes: Mute / Demute							
23	In code entry mode: Selection digits Sec Code	Changing preset / Track selection							
24	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	In radio mode: SP : search UP LP : Starts Autostore							

SP: Short press

LP: Long press (>2s)

TECHNICAL DATA

GENERAL

Power supply

:from 10.5 to 16V DC

Dimensions

:180x150x51 mm

FEATURES

FM-LW-MW-SW-RDS (EON).

Carequalization function : yes Dolby Noise Reduction : yes Music Search System : yes Remote control : yes

Remote display : yes : yes Security code Speed dependant volume : yes : yes

Telephone mute

RADIO

: 144-288 KHz LW : 531-1629 KHz MW : 87.5-108 MHz FΜ Sensivity 26dB S/N : <40 μV (LW)

: <30 μV (MW) : 1,8 μV (FM)

Limitation α-3dB

: 4,5 μV +/- 3μV

CD

CD mechanism

: CDM-M3/4.4

AMPLIFIER

: $4x15 \text{ W} / 4 \Omega \text{ (THD = 10\%)}$ Output power

: ≥40 dB Fader control : ≥40 dB Balance control Source separation : ≥60 dB

Input sensivity (CD in)

: 150 mV \pm 2 dB

22DC279/62...

RADIO - EXTRACT OF THE DFU

You are the owner of a Renault World Radio Receiver, a sophisticated multi-band radio enabling you access many frequencies and wave bands from all over the world.

Your radio is factory set for the country of purchase, however if you travel abroad with your vehicle to another continent it is advisable to reste your radio to that continents radio frequency range.

Caution: Before commencing with this sequences it is important to ensure that you have the preset code for your radio.

To select a continent

- 1. Turn off the set .
- 2. Press keys 2 and 5 simultaneously, whilst pressing these keys swith on the set.
- 3. Wait for 2 minutes until prompted to enter the set code.
- 4. Enter the set code
- 5. Use the thumbwheel on the satellite to access the desired continent.

Others

America

Japan

Asia

Arabia

6. When you have selected the desired continent long press ===

Then continue the sequence to select curves (auto equalisation).

The curve sequence is dependent on the type of car, refer to your car manual or dealer for the correct curve number. Using the thumbwheel select the desired curve.

Curve

- 0 =OFF
- 1 =Emply
- 2 =Clio or similar
- 3 =Megane or similar
- 4 =Laguna or similar
- 5 =Safrane or similar

Except if the vehicule manual recommends an other selection.

Long press to leave the mode.

7. Select REAR ON/OFF (loadspeakers).

Press to validate, after this procedure the set will play normally.

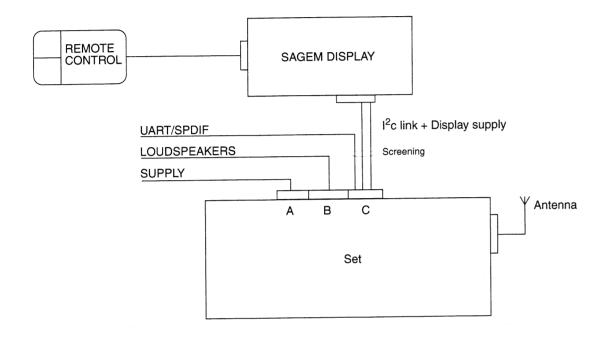
22DC279/62X

SPECIAL FONCTIONS

These sets are parts of a system, composed of the following parts:

- 1)- The set 22DC279/62 or /62F /62P /62R /62T /62Z.
- 2)- A remote control + cable.
- 3)- A remote SAGEM display (A1+ display)
- 4)- A cable link between the set (connector D) and the display.

-IN CASE YOU NEED PARTS OF THIS SYSTEM, PLEASE CONTACT LOCALLY RENAULT TO GET INFO ABOUT THESE PARTS.



This set is protected by a security code. THE CODE CAN ONLY BE ENTERED VIA THE REMOTE CONTROL.

Entering the code:

- -) Press the On/Off key to switch on the set. 0000 will appear on the display.
- -) To select the four digits of the code:
- Adjust the flashing digit with the thumbwheel on the remote control.
- Press the [22] key or 24] key on the remote control to change the digit.
- -) Press the [22] key or [24] key for at least 2 seconds to validate the code. When the code is activated a bleep will be heard.

Example: you want to enter the code 7637

	Turn the thum- bwheel Press [22] or [24]	Press [22] or [24] for at least 2 seconds			
0000	7000	7600	7630	7637	Last heard frequency

This test can be aborted at any time by switching the set OFF.

2 - Keyboard test

Starting the test: press Pr3 and ON.

"T" is displayed to request keyboard test. For each key pressed, the number of the pressed key appears, according to the table shown below. When all 15 keys have been pressed, "TEST OK" message is displayed.

number	1	2	3	4	5	6	7 . 8	9	10	11	12	13	14	15
key	+	>	-	· ·	MSS RANDOM	Pr 1	Pr 2 Pr	3 Pr	4 Pr 5	Pr 6	SRC	පි	TUNER	J

ESD



WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD equipment available:

Anti-static table mat large 1200X650X1.25mm small 600X650X1.25mm	4822 466 10953 4822 466 10958
Connection box (1Mohm)	4822 395 10223
Extendible cable (to connect wrist band	4822 320 11307
to connection box) Connecting cable (to connect table mat to connection box)	4822 320 11305
Earth cable (to connect any product to	4822 320 11308
mat or box) Complete kit ESD3 (combining all above	4822 310 10671
products) wristband tester	4822 344 13999

CHECKS AND ALIGNEMENTS

For general test instruction, please refer to the manual "

Current and voltage

1) Supply voltages - SET OFF-

SET OFF	Voltage	Total current +Acc ON	Total current +Acc OFF	μΡ supply pin 30	μΡ V-LOW pin 64	
Acc supply	+12.6V	< 3mA	not relevant	Min 4,8V	Max 0.8V	
Perm Supply	+12.6V	< 2mA	<2 mA	Max 5,2V	IVIAX U,OV	

2) Supply voltage - SET ON-

Reset µP pin 25	5V supply TDH3608TH pin 15		V-LOW μP pin 64		TDA3	8,5V TDA3608TH pin 4		5V 8608TH EEPROM 9 in 5 pin 8		
Max 0,8V	min	max	min	max	min	max	min	max	min	max
	4,8V	5,2V	0,8V	5.2V	8V	9V	4,8V	5,2V	4,8V	5,2V

CDSP Dig	ital supply	CDSP analog supply				
min	max	min	max			
3.1V	3.5V	3,1V	3,5V			

Consumption	FM	CD	FM + 4 x 5 W	FM + 4 x 15 W	FM + 4 x 17 W
DC 259/62	500 mA	700 mA	5.0 A	8.0 A	
DC 259/62L	700 mA	900 mA	5.0 A		10.0 A
Limits	+/- 200 mA	+/- 200 mA	+/- 500 mA	+/- 1 A	+/- 1 A

3) Reference oscillator frequencies

Devices	TMP93PW44DF pin 22 & 23	SAA1305T pin 14 &15	SAA7708	
Frequency	14,74 MHz	32,768 Khz	11,289 Mhz	
Cristal Accuracy	+/- 30 PPM	+/- 15 %	+/- 60 PPM	

Checks:

1) FM

FM mute	98 MHz 1mV	output at load resistor R & L = 775 mV = REF
Fivi mate	no signal	output should be < -24 dB (REF - 24 dB)

Limiting point α-3dB	RANGE	INPUT	NOMINAL	MIN	MAX
	98 Mhz	1Khz	5 μV	3 μV	8 μV

Search levels Input 98 MHz	Min : 10 μV	Nom : 18 μV	Max : 25 μV

2) AM

Sensivity at 26dB	162 khz	20 M	111	< 38 μV
S+N/N	1053 khz	m = 30 %	1 khz	< 30 μV

No alignment is needed for radio part. The tuner module is pre-aligned in the factory.

Dolby alignment, crosstalk alignment and FM DC level curve learning procedure are performed via a special equipment and software, not yet available in Service.

Some values are stored in the EEprom.

The EEprom available in service will contain mean values, that could affect slightly the performance of the set. It is the only solution until further notice.

Consequence: If you change the tuner module, change also the EEprom.

3) CD part

Test CD	Test	Result
Eccent-music 150um 4822 397 30279	Insert disk and play track 01	No failure
Vertical deviation 4822 397 30282	Check loading, display of number of tracks and total time. Select track no 9 time 00.20 listen to the disk during 4 seconds	No electrical or mechanical noise
	Check loading, display of number of track and total time listen to track 01 diring 5 seconds.	Good sound quality and no noise.
Sub chassis VII A 7104 099 28350	Track 02 check left and right channel.	No failure.
	Track 8 time 00.20 listen to disk during 10 seconds.	Good quality, no jump and no noise.
Commercial 8 cm CD	Check playability.	No failure.

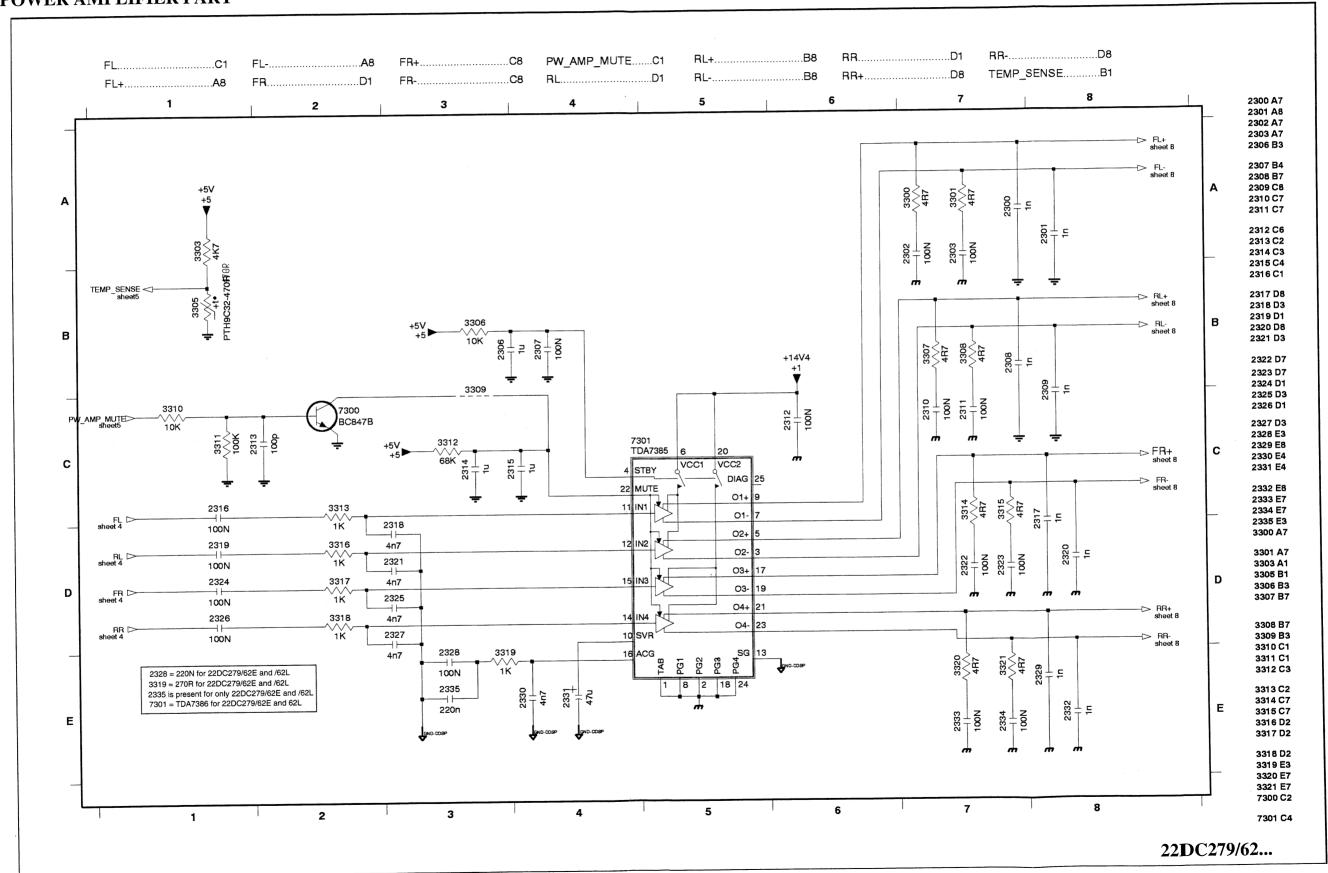
Test CD	Test : CROSS-TALK		Result	
Audio signal disk 1	Compression Off	Crosstalk	Crosstalk < -65dB	
4822 397 30184	Compression On track 67 and 71		Crosstalk < -60dB (comp 1 by default)	
Test CD	Test: TOTAL HARMONIC DISTORTION		Result	
20Khz filter	Compression Off	trools 67 and 71	Distortion < 0.3 %	
7104 087 04981	Compression On	track 67 and 71	Distortion < 10%	

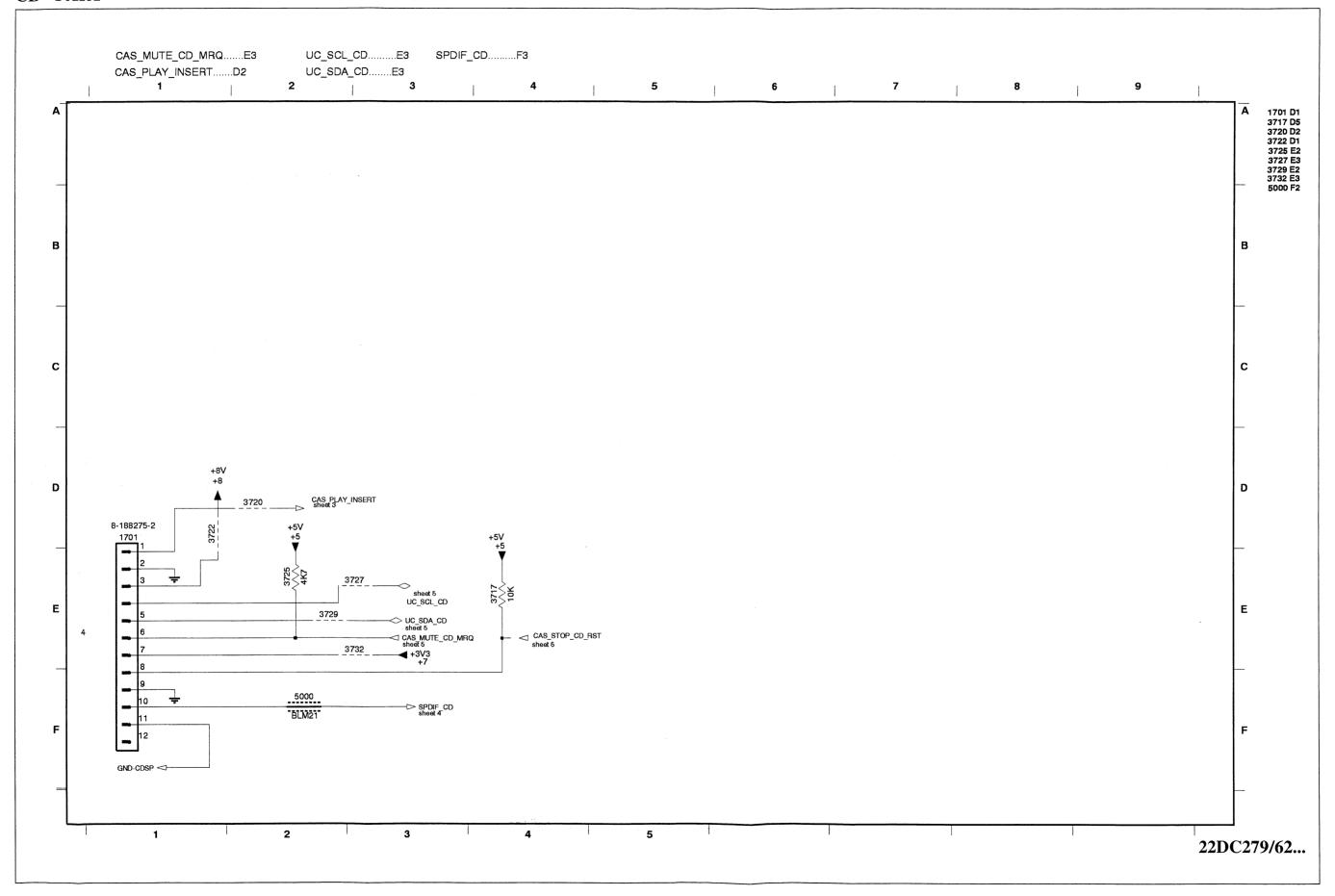
Signal to noise ratio

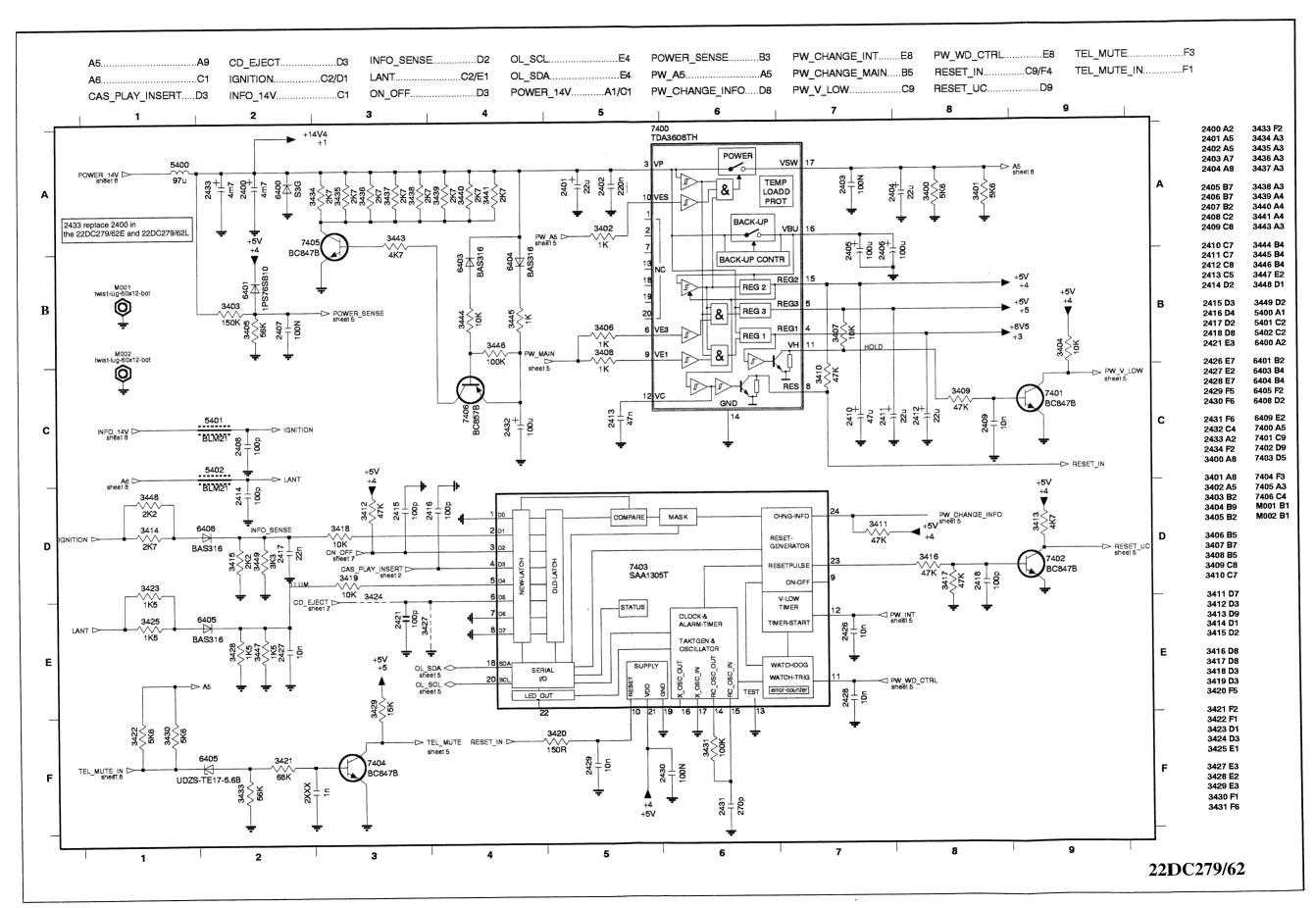
A weighted filter, track 1 versus track 49 of disk 1		
Compression Off S / N > 80dB		
Compression On (default 1)	S / N > 70dB	

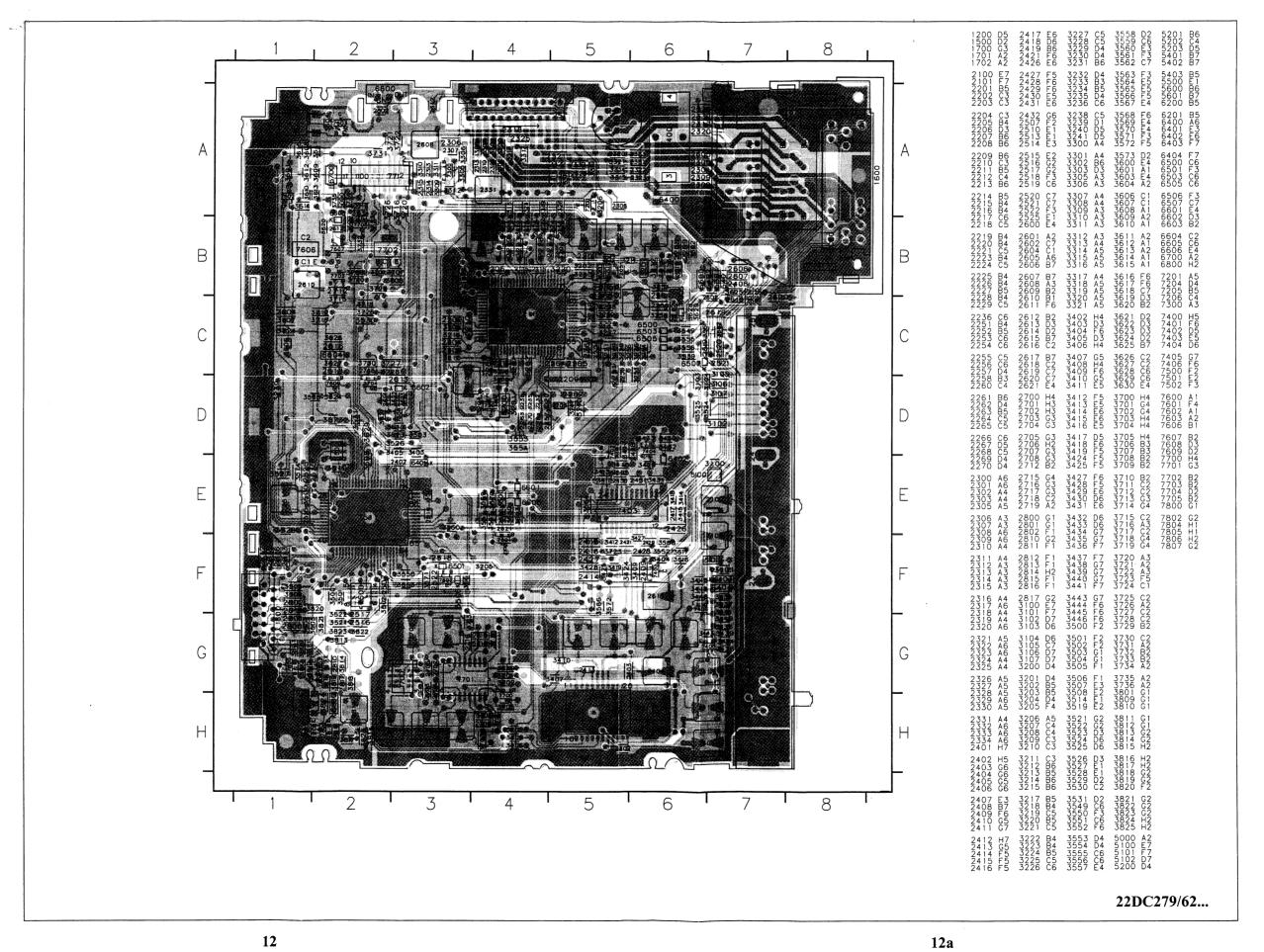
22DC279/62

POWER AMPLIFIER PART



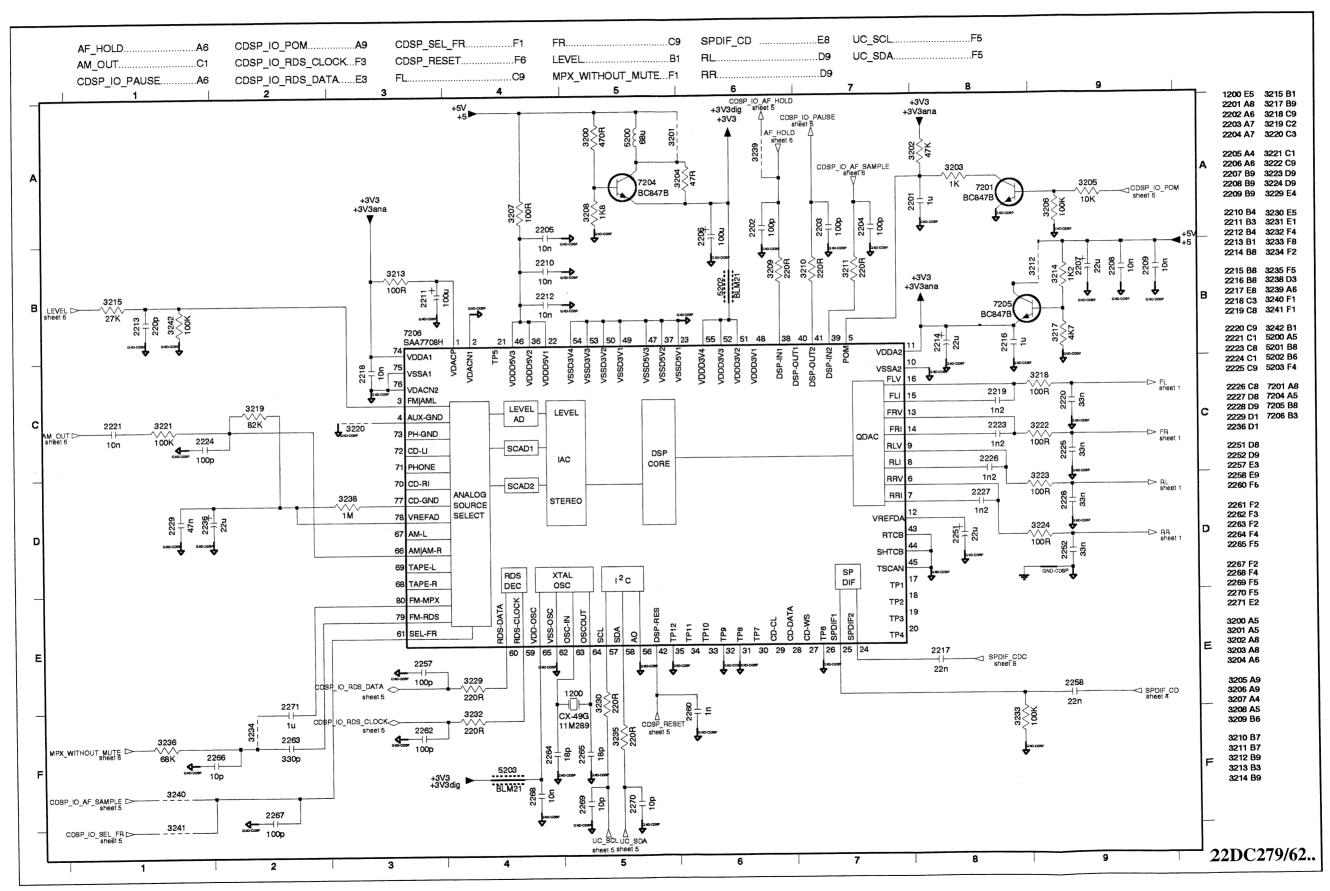




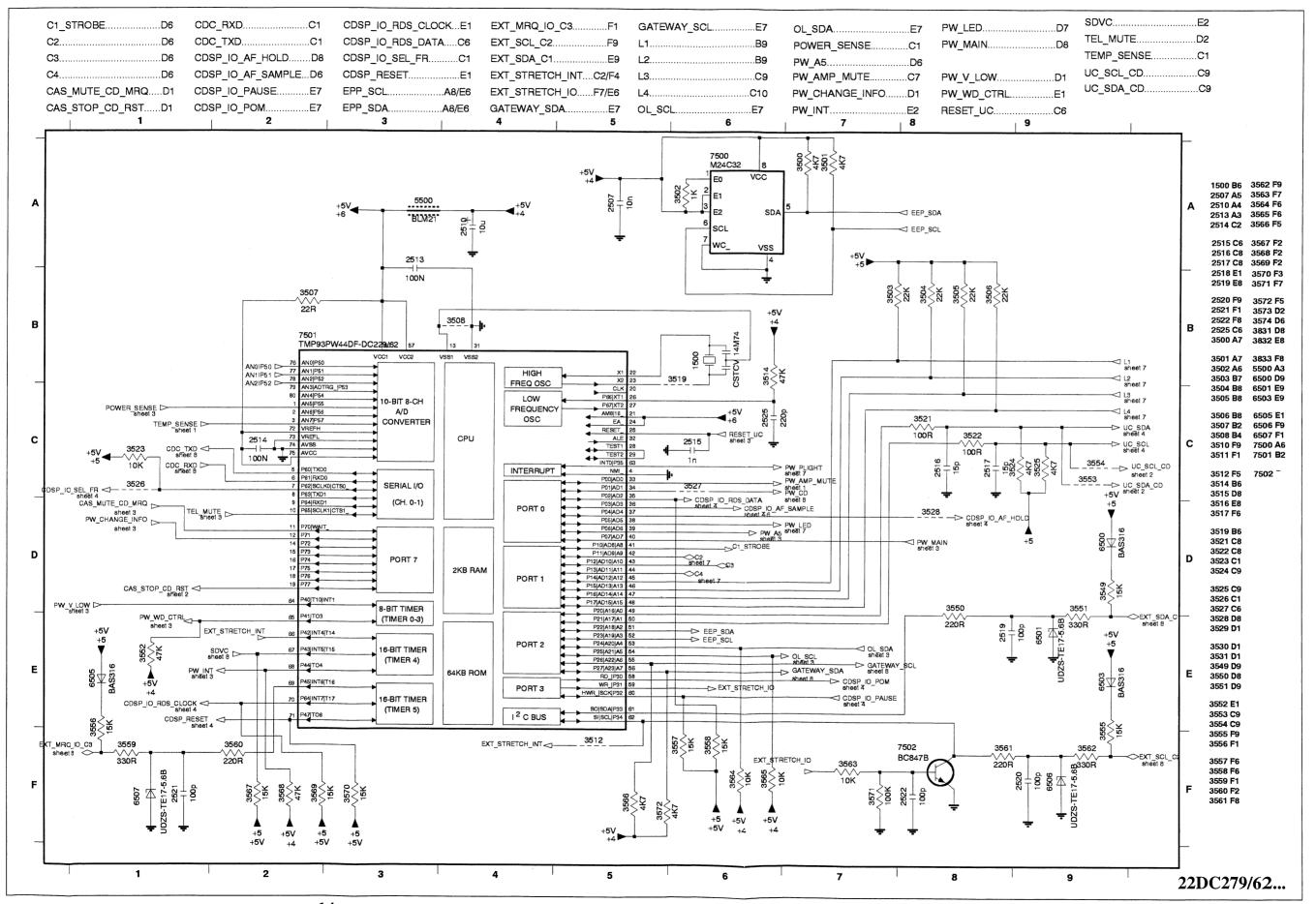


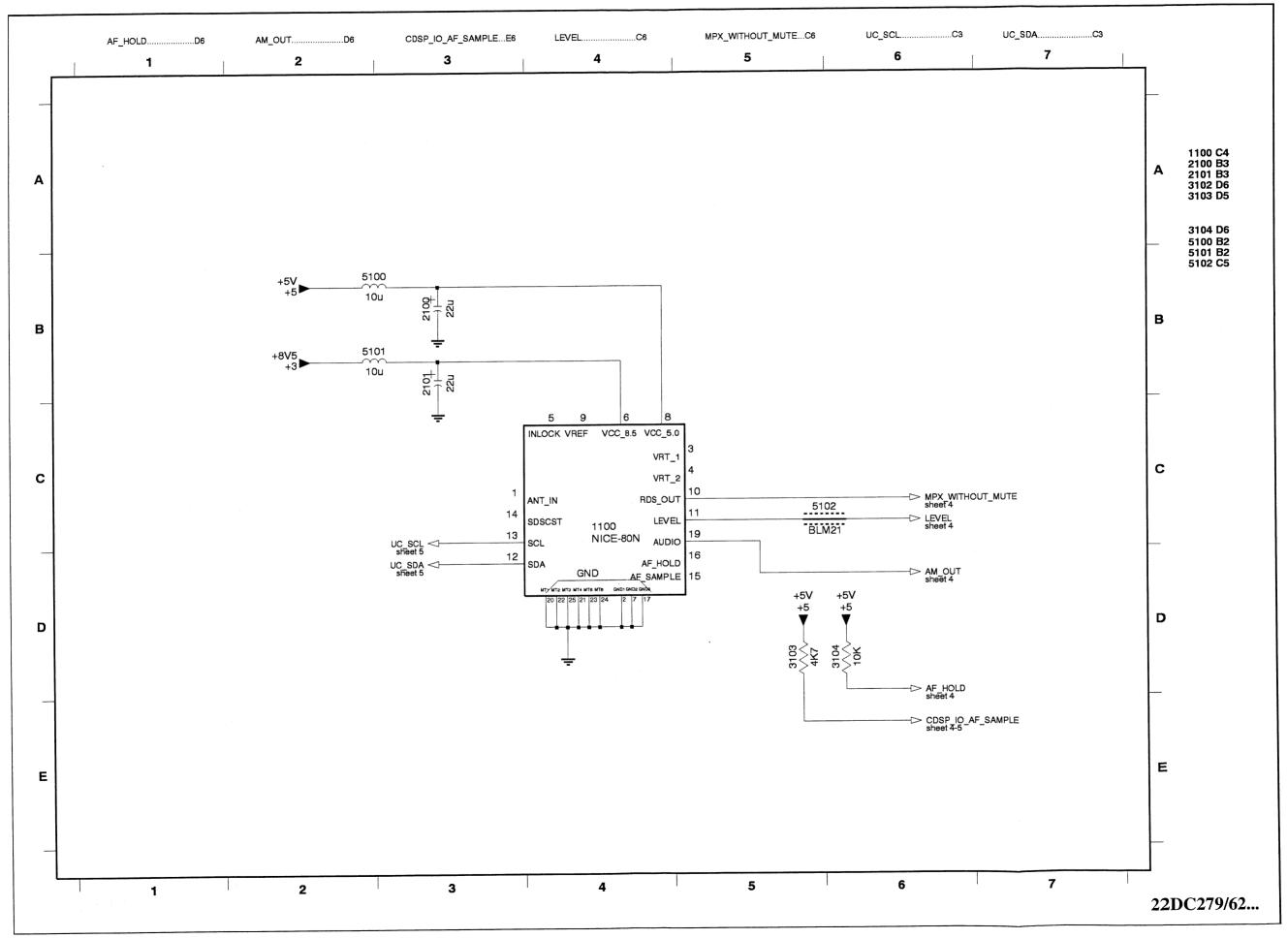
12a

SOUND PROCESS PART

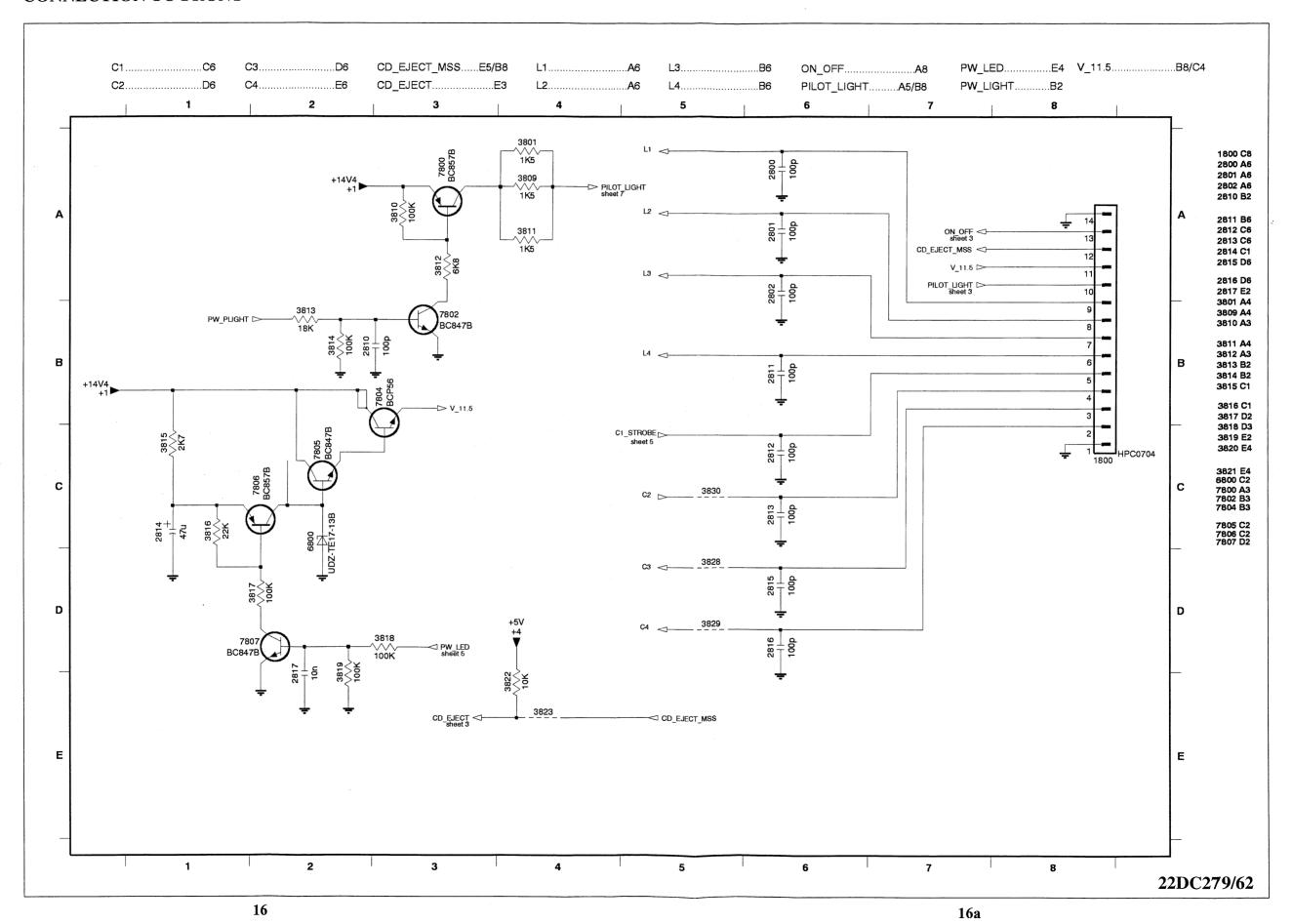


MICROCONTROLER PART

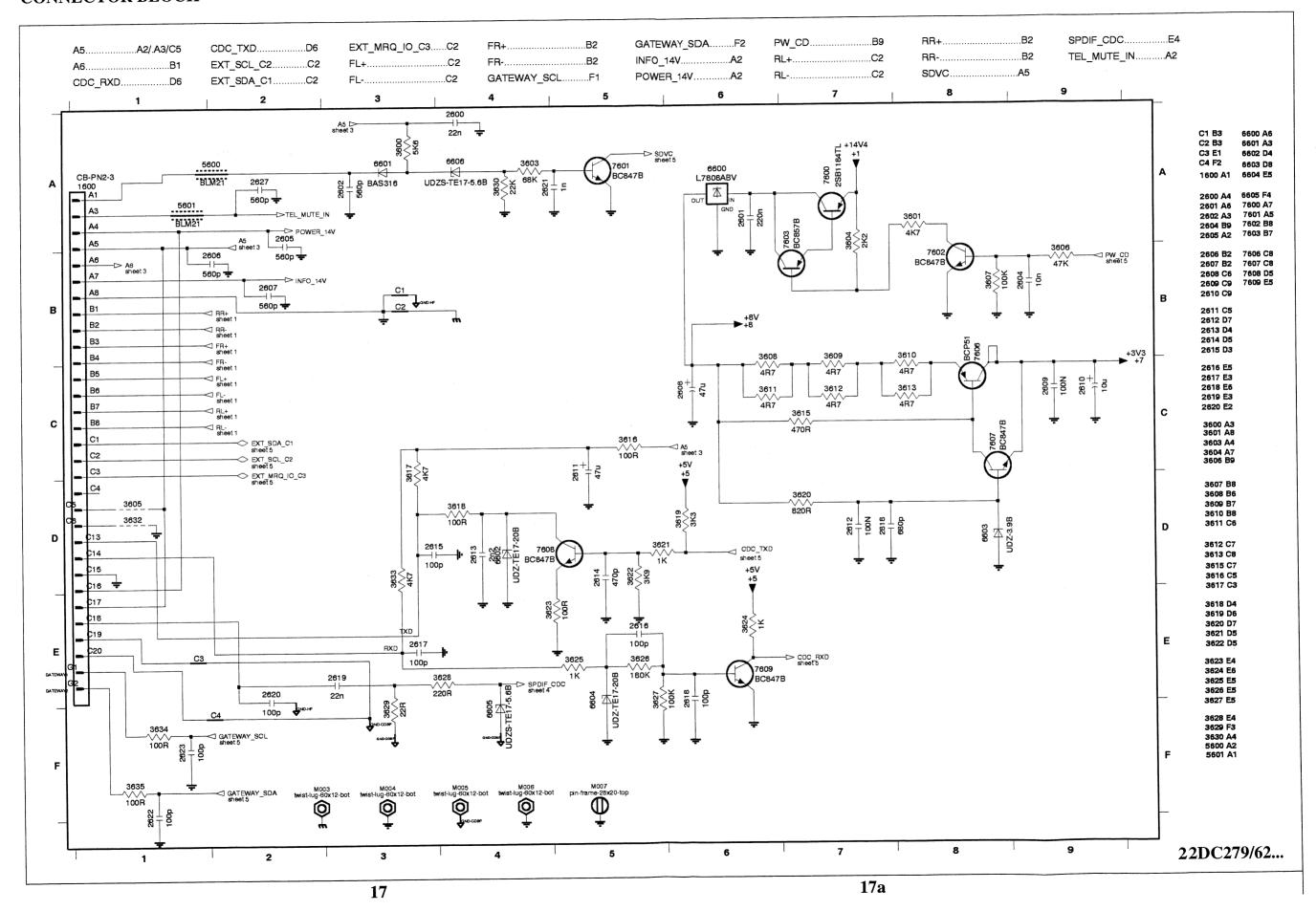


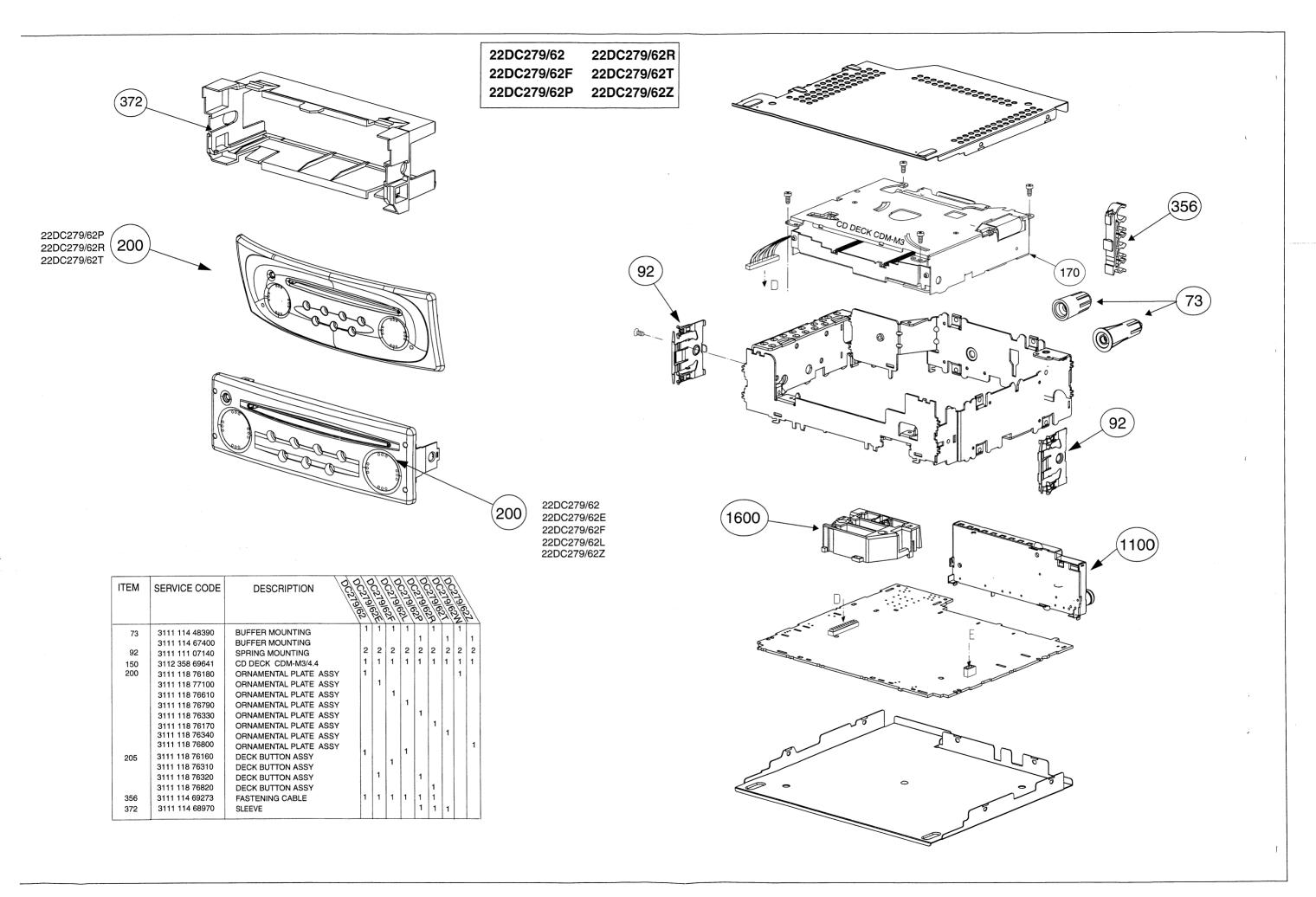


CONNECTION TO FRONT



CONNECTOR BLOCK





N 40 11 -					
Miscella		DIRECTION FOR USE	1500	2422 540 98436	RES CER SM 14M74
375	3111 115 33980		1600	3111 117 13190	CONNECTOR BLOCK
1100	3111 117 13180	TUNER NICE 80N	1600	3111 117 13130	00/4/120/01/122001
200	2422 543 01057	RES XTL SM 11M289			
11-					
	0000 004 00556	22µF 20% 25V	2311	4822 126 14585	100nF 10% X7R 0805 50V
2100	2020 024 90556	22μF 20% 25V	2312	4822 126 14585	100nF 10% X7R 0805 50V
101	2020 024 90556			5322 122 32531	100pF 5%NP0 50V
2201	4822 126 14043	1μF +80-20% Y5V 16V	2313		1µF +80-20% Y5V 16V
202	5322 122 32531	100pF 5% NP0 50V	2314	4822 126 14043	
203	5322 122 32531	100pF 5% NP0 50V	2316	4822 126 14585	100nF 10% X7R 0805 50V
		100pF 5% NP0 50V	2317	2222 580 15623	1nF 10% X7R 50V 0805
204	5322 122 32531			5322 126 10223	4.7nF10%X7R 63V
205	5322 122 34098	10nF10% X7R 63V	2318		100nF 10% X7R 0805 50V
206	2020 024 90627	100μF 20% 16V	2319	4822 126 14585	
207	2020 024 90556	22μF 20% 25V	2320	2222 580 15623	1nF 10% X7R 50V 0805
2208	5322 122 34098	10nF 10% X7R 63V	2321	5322 126 10223	4,7nF10%X7R 63V
		10 F 100/ N/FD 00N/	0000	4822 126 14585	100nF 10% X7R 0805 50V
209	5322 122 34098	10nF 10% X7R 63V	2322		100nF 10% X7R 0805 50V
2210	5322 122 34098	10nF 10% X7R 63V	2323	4822 126 14585	
211	2020 024 90627	100μF 20% 16V	2324	4822 126 14585	100nF 10% X7R 0805 50V
212	5322 122 34098	10nF 10% X7R 63V	2325	5322 126 10223	4,7nF10%X7R 63V
213	4822 122 33575	220pF 5% NP0 63V	2326	4822 126 14585	100nF 10% X7R 0805 50V
LE 13	7022 122 00010				
2214	2020 024 90556	22μF 20% 25V	2327	5322 126 10223	4,7nF10%X7R 63V
2216	4822 126 14043	1μF +80-20% Y5V 16V	2328	4822 126 14585	100nF 50V-> 62/F/P/R/T/Z
	5322 122 32654	22nF 0805 X7R 63V 10%	2328	2222 780 15654	220nf 16V -> /62E and /62L
2217		10nF10%X7R 63V	2329	2222 580 15623	1nF 10% X7R 50V 0805
2218	5322 122 34098	1N2 0805 X7R 50V 10%	2330	5322 126 10223	4,7nF10%X7R 63V
2219	2222 580 15624	114 YUC 11 A CUOU 2411	2000	0022 120 10220	•
2220	4822 126 12105	33nF 0805 X7R 50V PM5	2331	4822 124 41842	47μF
	5322 122 34098	10nF10%X7R 63V	2332	2222 580 15623	1nF 10% X7R 50V 0805
2221		1N2 0805 X7R 50V 10%	2333	4822 126 14585	100nF 10% X7R 0805 50\
2223	2222 580 15624	100pF 5%NP0 50V	2334	4822 126 14585	100nF 10% X7R 0805 50\
2224	5322 122 32531	100pr 3%Nru 30V	2335	2222 78015654	220nF 16V-> /62E and /62
2225	4822 126 12105	33nF 0805 X7R 50V PM5	2000	ZZZZ 10010004	
വാട	2222 580 15624	1N20805 X7R 50V 10%	2400	4822 124 12437	4700μF 20% 16V
2226		1N2 0805 X7R 50V 10%	2401	2020 024 90556	22μF 20% 25V
2227	2222 580 15624			2222 780 15654	220nF 10% X7R 16V 0805
2228	4822 126 12105	33nF 0805 X7R 50V PM5	2402		100nF 10% X7R 0805 50\
2229	2222 910 15645	47nFN 0805 X7R 25V 10%	2403	4822 126 14585	22μF 20% 25V
2236	2020 024 90556	22μF 20% 25V	2404	2020 024 90556	22μΓ 20 / 25 ν
0054	0000 004 00556	22uF 20% 25V	2405	2020 024 90627	100μF 20% 16V
2251	2020 024 90556	33nF 0805 X7R 50V PM5	2406	2020 024 90627	100μF 20% 16V
2252	4822 126 12105			4822 126 14585	100nF 10% X7R 0805 50\
2257	5322 122 32531	100pF 5%NP0 50V	2407		100pF 5%NP0 50V
2258	5322 122 32654	22N 0805 X7R 63V 10% R	2408	5322 122 32531	•
2259	4822 126 14043	1μF +80-20% Y5V 16V	2409	5322 122 34098	10nF10%X7R 63V
	2000 500 45000	1nF 10% X7R 50V 0805	2410	4822 124 41842	47μ F
2260	2222 580 15623			2020 024 90556	22µF 20% 25V
2262	5322 122 32531	100pF 5%NP0 50V	2411		22μF 20% 25V
2263	5322 122 31863	330pF 0805 NP0 63V PM5	2412	2020 024 90556	
2264	4822 126 13689	18pF 1% NP0 63V	2413	2222 910 15645	47NF 0805 X7R 25V 109
2265	4822 126 13689	18pF 1% NP0 63V	2414	5322 122 32531	100pF 5%NP0 50V
		40"E 50" NEO 00"	0415	5322 122 32531	100pF 5%NP0 50V
2266	5322 122 32448	10pF 5% NP0 63V	2415	5322 122 32531	100pF 5%NP0 50V
2267	5322 122 32531	100pF 5%NP0 50V	2416		
2268	5322 122 34098	10nF10%X7R 63V	2417	4822 126 14043	1μF +80-20% Y5V 16V
2269	5322 122 32448	10pF 5% NP0 63V	2418	5322 122 32531	100pF 5%NP0 50V
2270	5322 122 32448	10pF 5% NP0 63V	2421	5322 122 32531	100pF 5%NP0 50V
			0.400	E000 100 04000	10nF10%X7R 63V
2300	2222 580 15623	1nF 10% X7R 50V 0805	2426	5322 122 34098 5322 122 34098	10nF10%X7R 63V
2301	2222 580 15623	1nF 10% X7R 50V 0805	2427		10nF10%X7R 63V
2302	4822 126 14585	100nF 10% X7R 0805 50V	2428	5322 122 34098	
2303	4822 126 14585	100nF 10% X7R 0805 50V	2429	5322 122 34098	10nF10%X7R 63V
2305	4822 126 14585	100nF 10% X7R 0805 50V	2430	4822 126 14585	100nF 10% X7R 0805 50
			0404	4000 400 00040	270pF 5%NP0 50V
2306	4822 126 14043	1μF +80-20% Y5V 16V	2431	4822 122 33216	270pF 5%NF0 50V 100μF 20% 16V
2307	4822 126 14585	100nF 10% X7R 0805 50V	2432	2020 024 90627	6000E16V - /60E and
1 200,	2222 580 15623	1nF 10% X7R 50V 0805	2433	2020 021 91539	6800µF 16V -> /62E and
2308			2507	5322 122 34098	10nF 10%X7R 63V
2308	2222 580 15623	1nF 10% X7R 50V 0805			
1		1nF 10% X7R 50V 0805 100nF 10% X7R 0805 50V	2510	4822 124 12082	10μF 20% SM 50V

					22DC279/62
3238 3239	4822 051 20105 4822 051 20008	1M00 5% 0,1W 0R00 JUMP. (0805)	3412 3413	4822 051 20472	4K70 5% 0,1W
3236	4822 051 20683	68K00 5% 0,1W	3411	4822 117 10834 4822 117 10834	47K 1% 0,1W 47K 1% 0,1W
3235	4822 117 11503	220R 1% 0.1W	3410	4822 117 10834	47K 1% 0,1W
3234	4822 051 20008	0R00 JUMP. (0805)	3409	4822 117 10834	47K 1% 0,1W
3232	4822 117 11503	220R 1% 0.1W	3408	4822 051 20102	1K00 5% 0,1W
3230	4822 117 11503	220R 1% 0.1W	3407	4822 117 10833	10K 1% 0,1W
3229	4822 117 11503	220R 1% 0.1W	3406	4822 051 20102	1K00 5% 0,1W
3224	4822 051 20101	100R00 5% 0,1W	3405	4822 117 11148	56K 1% 0,1W
3223	4822 051 20101	100R00 5% 0,1W	3404	4822 117 10833	10K 1% 0,1W
3222	4822 051 20101	100R00 5% 0,1W	J 4 03	-OLL 001 20107	: ##:::## #:: #1 ::!
3221	4822 117 10837	100K 1% 0.1W 100R00 5% 0,1W	3402 3403	4822 051 20102 4822 051 20154	150K00 5% 0,1W
3220	4822 051 20008	0R00 JUMP. (0805)	3321	4822 051 20478	4R70 5% 0,1W 1K00 5% 0,1W
3219	4822 117 11149	82K 1% 0,1W	3320	4822 051 20478	4R70 5% 0,1W 4R70 5% 0,1W
3218	4822 051 20101	100R00 5% 0,1W	3319	4822 117 11504	270R 5% -> /62E and /62
					070D F0/ /00F -1/00
3217	4822 051 20472	4K70 5% 0,1W	3319	4822 051 20102	1K -> 62/F/P/R/T/Z
3215 3216	4822 117 10837	100K 1% 0.1W	3318	4822 051 20102	1K00 5% 0,1W
3214 3215	4822 051 20122	27K00 5% 0,1W	3317	4822 051 20102	1K00 5% 0,1W
3213	4822 051 20101 4822 051 20122	1K20 5% 0,1W	3316	4822 051 20102	1K00 5% 0,1W
0010	4000 0E1 00101	100R00 5% 0,1W	3315	4822 051 20478	4R70 5% 0,1W
3212	4822 051 20008	0R00 JUMP. (0805)	3314	4822 051 20478	-1170 J/0 U, IVV
3211	4822 117 11503	220R 1% 0.1W	3313	4822 051 20102	1K00 5% 0,1W 4R70 5% 0,1W
3210	4822 117 11503	220R 1% 0.1W	3312	4822 051 20683	68K00 5% 0,1W
3209	4822 117 11503	220R 1% 0.1W	3311	4822 117 10837	100K 1% 0.1W
3208	4822 051 20182	1K80 5% 0,1W	3310	4822 117 10833	10K 1% 0,1W
JEU1 .	TOLE 001 20101				
3206 3207	4822 117 10637	100R00 5% 0,1W	3309	4822 051 20008	OR00 JUMP. (0805)
3205 3206	4822 117 10833	100K 1% 0,1W	3308	4822 051 20478	4R70 5% 0,1W
3204 3205	4822 117 10833	10K 1% 0,1W	3307	4822 051 20478	4R70 5% 0,1W
3203	4822 051 20102 4822 051 20479	47R00 5% 0,1W	3306	4822 117 10833	10K 1% 0,1W
2002	4800 DE1 0D100	1K00 5% 0,1W	3305	4822 116 10062	470R 50% 16V PTC 0805
3202	4822 117 10834	7/IX 1/0 U,1#V	5555		
3201	4822 051 20008	0R00 JUMP. (0805) 47K 1% 0,1W	3302	4822 051 20472	4K70 5% 0,1W
3200	4822 051 20471	0R00 JUMP. (0805)	3302	4822 117 10833	10K 1% 0,1W
3104	4822 117 10833	10K 1% 0,1W 470R00 5% 0,1W	3300	4822 051 20478	4R70 5% 0,1W
3103	4822 051 20472	4K70 5% 0,1W 10K 1% 0,1W	3300	4822 051 20478	4R70 5% 0,1W
	1000 051 00170	4K70 59/ 0.1M	3241	4822 051 20008	OR00 JUMP. (0805)
2612	4822 126 14585	100nF 10% X7R 0805 50V			
2611	4822 124 41842	47μF			
.515	.022 /2 / 12002		2817	5322 122 34098	10nF10% X7R 63V
2610	4822 124 12082	10μF 20% SM 50V	2816	5322 122 32531	100pF 5% NP0 50V
2608 2609	4822 126 14585	100nF 10% X7R 0805 50V			•
2607	5322 122 32531 4822 124 41842	47μF	2815	5322 122 32531	100pF 5% NP0 50V
2606	5322 122 32531	100pF 5%NP0 50V	2814	4822 124 41842	47μF
	5000 400 00504	100pF 5%NP0 50V	2813	5322 122 32531	100pF 5% NP0 50V
2605	5322 122 32531	100pF 5%NP0 50V	2811 2812	5322 122 32531	100pF 5% NP0 50V
2604	5322 122 34098	10nF10%X7R 63V	0011	5322 122 32531	100pF 5% NP0 50V
2602	5322 116 80853	560pF 5%NP0 63V	2810	5322 122 32531	100pr 5% NF0 50V
2601	2222 780 15654	220nF 10% X7R 16V 0805	2802	5322 122 32531	100pF 5% NP0 50V 100pF 5% NP0 50V
2600	5322 122 32654	22NF 0805 X7R 63V 10% R	2801	5322 122 32531	100pF 5%NP0 50V
			2800	5322 122 32531	100pF 5%NP0 50V
2525	4822 122 33575	220pF 5% NP0 63V	2621	2222 580 15623	1nF 10% X7R 50V 0805
2522	5322 122 32531	100pF 5%NP0 50V			
2521	5322 122 32531	100pF 5%NP0 50V	2620	5322 122 32531	100pF 5%NP0 50V
519 520	5322 122 32531	100pF 5%NP0 50V	2619	5322 122 32654	22N 0805 X7R 63V 10%
540	5322 122 32531	100pF 5%NP0 50V	2618	5322 122 32531	100pF 5% NP0 50V
			2617	5322 122 32531	100pF 5% NP0 50V

2N2 0805 X7R 50V 10% R

470P 0805 NP0 63V PM5

100pF 5% NP0 50V

100pF 5% NP0 50V 100pF 5% NP0 50V

2222 580 15627

5322 122 32268

5322 122 32531

5322 122 32531

2614

2615

2616

100nF 10% X7R 0805 50V

100nF 10% X7R 0805 50V

1nF 10% X7R 50V 0805

15pF 2% NP0 63V

15pF 2% NP0 63V

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2513

2514

2515

2516

2517

4822 126 14585

4822 126 14585

2222 580 15623

4822 126 13486

4822 126 13486

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	4822 051 20332	3K30 5% 0,1W	3564	4822 117 10834	47K 1% 0,1W
3414		1K80 5% 0,1W	3565	4822 117 10834	47K 1% 0,1W
3415	4822 051 20182	•			•
3416	4822 117 10834	47K 1% 0,1W	3566	4822 051 20472	,
3417	4822 117 10834	47K 1% 0,1W	3567	4822 116 83933	15K 1% 0,1W
3418	4822 117 10833	10K 1% 0,1W	3568	4822 117 10834	47K 1% 0,1W
3419	4822 117 10833	10K 1% 0,1W	3569	4822 116 83933	15K 1% 0,1W
3424	4822 051 20008	0R00 JUMP. (0805)	3570	4822 116 83933	15K 1% 0,1W
3425	4822 051 20000	3K30 5% 0,1W	3571	4822 117 10837	100K 1% 0.1W
		•	3572		4K70 5% 0.1W
3428	4822 051 20182	-		4822 051 20472	
3429	4822 117 10833	10K 1% 0,1W	3600	4822 117 12955	2K7 1% 0,1W 0805
3430	4822 117 11449	2K2 5% 0,1W 0805	3601	4822 051 20472	4K70 5% 0,1W
3431	4822 117 10837	100K 1% 0.1W	3603	4822 117 11507	6K8 1% 0,1W
3432	4822 117 10837	100K 1% 0.1W	3604	4822 117 11449	2K2 5% 0,1W 0805
3433	4822 051 20333	33K00 5% 0,1W	3606	4822 117 10834	47K 1% 0,1W
3434	4822 117 12955	2K7 1% 0,1W 0805	3607	4822 117 10837	100K 1% 0.1W
3434	4022 117 12955	21(7 176 0,100 0000	3007	4022 117 10007	10010 176 0.100
3435	4822 117 12955	2K7 1% 0,1W 0805	3608	4822 051 20478	4R70 5% 0,1W
3436	4822 117 12955	2K7 1% 0,1W 0805	3609	4822 051 20478	4R70 5% 0,1W
3437	4822 117 12955	2K7 1% 0,1W 0805	3610	4822 051 20478	4R70 5% 0,1W
3438	4822 117 12955	2K7 1% 0,1W 0805	3611	4822 051 20478	4R70 5% 0,1W
3439	4822 117 12955	2K7 1% 0,1W 0805	3612	4822 051 20478	4R70 5% 0,1W
0.100	1022 117 12000				
3440	4822 117 12955	2K7 1% 0,1W 0805	3613	4822 051 20478	4R70 5% 0,1W
3441	4822 117 12955	2K7 1% 0,1W 0805	3615	4822 051 20471	470R00 5% 0,1W
3443	4822 051 20472	4K70 5% 0,1W	3616	4822 051 20101	100R00 5% 0,1W
3444	4822 117 10833	10K 1% 0,1W	3617	4822 051 20472	4K70 5% 0,1W
3445	4822 051 20102	1K00 5% 0,1W	3618	4822 051 20101	100R00 5% 0,1W
0-1-10	1022 001 20102		55.5		
3446	4822 117 10837	100K 1% 0.1W	3619	4822 051 20332	3K30 5% 0,1W
3500	4822 051 20472	4K70 5% 0,1W	3620	4822 117 11454	820R 1% 0,1W
3501	4822 051 20472	4K70 5% 0,1W	3621	4822 051 20102	1K00 5% 0,1W
3502	4822 051 20102	1K00 5% 0,1W	3622	4822 117 11139	1K5 1% 0,1W
3503	4822 051 20223	22K00 5% 0,1W	3623	4822 051 20101	100R00 5% 0,1W
			2224		
3504	4822 051 20223	22K00 5% 0,1W	3624	4822 051 20102	1K00 5% 0,1W
3505	4822 051 20223	22K00 5% 0,1W	3625	4822 051 20102	1K00 5% 0,1W
3506	4822 051 20223	22K00 5% 0,1W	3626	4822 051 20184	180K00 5% 0,1W
3507	4822 051 20229	22R00 5% 0,1W	3627	4822 117 10837	100K 1% 0.1W
3508	4822 051 20008	0R00 JUMP. (0805	3628	4822 117 11503	220R 1% 0.1W
3514	4822 117 10834	47K 1% 0,1W	3629	4822 051 20229	22R00 5% 0,1W
		•	3630		•
3519	4822 051 20008	0R00 JUMP. (0805)		4822 117 11504	270R 1% 0.1W
3521	4822 051 20101	100R00 5% 0,1W	3717	4822 117 10833	10K 1% 0,1W
3522	4822 051 20101	100R00 5% 0,1W	3720	4822 051 20008	0R00 JUMP. (0805)
3523	4822 117 10833	10K 1% 0,1W	3722	4822 051 20008	0R00 JUMP. (0805)
3524	4822 051 20472	4K70 5% 0,1W	3723	4822 117 10837	100K 1% 0.1W
3525	4822 051 20472	4K70 5% 0,1W	3724	4822 051 20008	0R00 JUMP. (0805)
3526	4822 051 20008	0R00 JUMP. (0805)	3725	4822 051 20472	4K70 5% 0,1W
3527	4822 051 20008	0R00 JUMP. (0805)	3727	4822 051 20008	0R00 JUMP. (0805)
3528	4822 051 20008	0R00 JUMP. (0805)	3729	4822 051 20008	0R00 JUMP. (0805)
0020	4022 031 20000	01100 001111 : (0000)	0,20	4022 001 20000	01100 001111 (0000)
3549	4822 116 83933	15K 1% 0,1W	3732	4822 051 20008	0R00 JUMP. (0805)
3550	4822 117 11503	220R 1% 0.1W	3801	4822 117 11139	1K5 1% 0,1W
3551	4822 117 13577	330R 1% 0805 1,25W	3809	4822 117 11139	1K5 1% 0,1W
3552	4822 117 10834	47K 1% 0,1W	3810	4822 117 10837	100K 1% 0.1W
3553	4822 051 20008	0R00 JUMP. (0805)	3811	4822 117 11139	1K5 1% 0,1W
		()			~ -7
3554	4822 051 20008	0R00 JUMP. (0805)	3812	4822 117 11507	6K8 1% 0,1W
3555	4822 116 83933	15K 1% 0,1W	3813	4822 117 10965	18K 1% 0,1W
3556	4822 116 83933	15K 1% 0,1W	3814	4822 117 10837	100K 1% 0.1W
3557	4822 116 83933	15K 1% 0,1W	3815	4822 117 12955	2K7 1% 0,1W 0805
3558	4822 116 83933	15K 1% 0,1W	3816	4822 051 20223	22K00 5% 0,1W
3550	1000 117 10577	330D 10/ 000E 1 0EM	2017	/800 117 10007	1006 19/ 0.114
3559 3560	4822 117 13577 4822 117 11503	330R 1% 0805 1,25W 220R 1% 0.1W	3817 3818	4822 117 10837 4822 117 10837	100K 1% 0.1W 100K 1% 0.1W
3561	4822 117 11503	220R 1% 0.1W	3819	4822 117 10837	100K 1% 0.1W
3562	4822 117 11503	330R 1% 0805 1,25W	3822	4822 117 10837	10K 1% 0.1W
3563		10K 1% 0,1W	3823		0R00 JUMP. (080
5505	4822 117 10833	10N 170 U, 1VV	3023	4822 051 20008	OTTOO JUIVIE. (UOU
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5000 4822 157 71206 BLM21A601SPT 5401 4822 157 71206 BLM21A601SPT 5101 4822 157 71314 10UH (NL3225227-100U) 5402 4822 157 71316 BLM21A601SPT 5101 4822 157 71206 BLM21A601SPT 5500 4822 157 71206 BLM21A601SPT 5101 4822 157 71206 BLM21A601SPT 5500 4822 157 71206 BLM21A601SPT 5502 4822 157 71206 BLM21A601SPT 5600 4822 157 71206 BLM21A601SPT 5602 4822 157 71206 BLM21A601SPT 5600 4822 130 10488 S3G 6506 4822 130 10185 UDZS5.6B 6401 4822 130 11528 IPS76SB10 5507 4822 130 10185 UDZS5.6B 6402 4822 130 11397 BAS316 6602 4822 130 11397 BAS316 6604 4822 130 11397 BAS316 6800 4822 130		~ HDH	·			
15100 4822 157 71314 10UH (N.1.322522T-10UJ) 5402 4822 157 71206 BLM21A601SPT	5000	4822 157 71206	BLM21A601SPT	5401	4822 157 71206	BLM21A601SPT
5101 4822 157 71914 10UH (NL322527-10U) 5500 4822 157 71206 BLM21A601SPT 5102 4822 157 71206 BLM21A601SPT 5601 4822 157 71206 BLM21A601SPT 5600 4822 157 70935 BLM21A601SPT 5601 4822 157 71206 BLM21A601SPT 5600 4822 157 70935 BLM21A601SPT 5601 4822 157 70935 BLM21A601SPT 5601 4822 157 70935 BLM21A601SPT 5601 4822 150 10488 S3G 6500 4822 130 10488 BLM21A601SPT 5601 4822 130 11397 BAS316 6601 4822 130 11595 BAS316 6601 4822 130 11397 BAS316 6601 4822 130 11595 BAS316 6601 4822 130 11397 BAS316 6600 4822 130 11397 BAS316 6604 4822 130 11397 BAS316 6604 4822 130 11397 BAS316 6606 4822 130 11397 BAS316 6800 4822 130 11397 BAS316 8600 4822 130 10185 UDZS3.8 BC846B B	5100	4822 157 71314	10UH (NL322522T-100J)	5402	4822 157 71206	BLM21A601SPT
\$102 4822 157 71206 BLM21A601SPT \$600 4822 157 71206 BLM21A601SPT \$601 4822 157 71206 BLM21A601SPT \$602 502 157 71206 BLM21A601SPT \$602 50			,	5500	4822 157 71206	BLM21A601SPT
\$202			•		4822 157 71206	BLM21A601SPT
### ### ### ### ### ### ### ### ### ##						
### ### ### ### ### ### ### ### ### ##	E203	4822 157 71206	RI MO1A601SPT			
6400 4822 130 10488 S3G 6506 4822 130 10185 UDZS5.6B 6401 4822 130 11528 IPS76SB10 6507 4822 130 10185 UDZS5.6B 6402 4822 130 11397 BAS316 6601 4822 130 11397 BAS316 6602 4822 130 10185 UDZS5.6B 6403 4822 130 11397 BAS316 6602 4822 130 10656 UDZ20B 6404 4822 130 11397 BAS316 6602 4822 130 10566 UDZ20B 6500 4822 130 11397 BAS316 6603 4822 130 10566 UDZ20B 6501 4822 130 110185 UDZS5.6B 6603 4822 130 1085 UDZS5.6B 6603 4822 130 1085 UDZS5.6B 6603 4822 130 1085 UDZS5.6B 6603 4822 130 10185 UDZS5.6B 6605 4822 130 60159 BC846B 7204 5322 130 60159 BC846B 7205 5322 130 60			DLIVIZ TAGO TOP T			
6400 4822 130 10488 S3G 6506 4822 130 10185 UDZS5.6B 6401 4822 130 11528 IPS76SB10 6507 4822 130 10185 UDZS5.6B 6402 4822 130 11397 BAS316 6601 4822 130 11397 BAS316 6602 4822 130 10185 UDZS5.6B 6403 4822 130 11397 BAS316 6602 4822 130 10656 UDZ20B 6404 4822 130 11397 BAS316 6602 4822 130 10566 UDZ20B 6500 4822 130 11397 BAS316 6603 4822 130 10566 UDZ20B 6501 4822 130 110185 UDZS5.6B 6603 4822 130 1085 UDZS5.6B 6603 4822 130 1085 UDZS5.6B 6603 4822 130 1085 UDZS5.6B 6603 4822 130 10185 UDZS5.6B 6605 4822 130 60159 BC846B 7204 5322 130 60159 BC846B 7205 5322 130 60						
6401 4822 130 11528 IPS76SB10 6507 4822 130 10185 UDZS5.6B 6402 4822 130 11397 BAS316 6602 4822 130 10566 UDZ20B 6403 4822 130 11397 BAS316 6602 4822 130 10566 UDZ20B 6404 4822 130 11397 BAS316 6602 4822 130 10566 UDZ20B 6504 4822 130 11397 BAS316 6604 4822 130 10565 UDZ25.6B 6501 4822 130 10185 UDZ55.6B 6605 4822 130 10185 UDZ55.6B 6503 4822 130 11397 BAS316 6606 4822 130 10185 UDZ55.6B 6503 4822 130 11397 BAS316 6606 4822 130 10185 UDZ55.6B 6503 4822 130 11397 BAS316 6606 4822 130 10185 UDZ55.6B 6505 4822 130 11397 BAS316 6600 4822 130 10189 UDZ3.3B 6505 4822 130 11397 BAS316 6800 4822 130 10189 UDZ3.3B 6505 4822 130 11397 BAS316 6800 4822 130 10189 UDZ3.3B 6506 4822 130 11397 BAS316 6800 4822 130 10189 UDZ3.3B 6507 4822 130 11397 BAS316 6800 4822 130 11149 UDZ13B ★★★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★			222	0500	1000 100 10105	LIDZOF OD
8402 4822 130 11397 BAS316 6601 4822 130 11397 BAS316 6403 4822 130 11397 BAS316 6602 4822 130 10856 UDZ20B 6404 4822 130 11397 BAS316 6604 4822 130 10856 UDZ20B 6500 4822 130 11397 BAS316 6604 4822 130 10856 UDZ20B 6501 4822 130 11397 BAS316 6606 4822 130 10185 UDZ55.6B 6503 4822 130 11397 BAS316 6606 4822 130 10185 UDZ55.6B 6503 4822 130 11397 BAS316 6606 4822 130 10185 UDZ55.6B 6503 4822 130 11397 BAS316 6606 4822 130 10838 UDZ3.3B 6505 4822 130 11397 BAS316 6800 4822 130 10185 UDZ3.3B 6505 4822 130 10185 BC846B 7204 5322 130 60159 BC846B 7205 5322 130 60159 BC846B 7206 9325 637 60557 IC SM SAA7708H/N203 7301 9322 129 98667 TDA7385 → 62/F/P/R/T/Z 7301 9322 129 80667 TDA7385 → 62/F/P/R/T/Z 7400 9325 629 23118 TDA3608TH/N3 7401 5322 130 60159 BC846B 7403 4822 209 16279 SAA1305T 7404 5322 130 60159 BC846B 7403 4822 209 16279 SAA1305T 7404 6422 130 60373 BC856B 7506 5322 130 60159 BC846B 7507 5322 130 60159 BC846B 7508 5322 130 60159 BC846B 7509 9322 133 13668 SE81184-R 7501 5322 130 60159 BC846B 7500 9322 133 13668 SE8184-R 7501 5322 130 60159 BC846B 7500 9322 133 13668 BC846B 7500 9322 130 60159 BC846B						
8403 4822 130 11397 BAS316 6602 4822 130 10656 UDZ20B 8404 4822 130 11397 BAS316 6603 4822 130 11564 UDZ3.9B 8500 4822 130 11397 BAS316 6604 4822 130 10656 UDZ20B 8501 4822 130 11397 BAS316 6604 4822 130 10656 UDZ25.6B 8503 4822 130 11397 BAS316 6606 4822 130 10858 UDZ3.5B 8505 4822 130 11397 BAS316 6606 4822 130 10858 UDZ3.3B 8505 4822 130 11397 BAS316 6800 4822 130 10838 UDZ3.3B 8505 4822 130 11397 BAS316 6800 4822 130 10838 UDZ3.3B 8505 4822 130 11397 BAS316 6800 4822 130 11149 UDZ13B 8506 4822 130 11397 BAS316 BC846B 8506 9352 130 60159 BC846B 8507 9322 130 60159 BC846B 8508 9352 639 80557 IC SM SAA7708H/N203 8508 9322 130 60159 BC846B 8508 9322 130 60159 BC846B 8508 9322 130 60159 BC846B 8509 9322 129 93667 TDA7385 → 62/F/P/R/T/Z 8701 9322 129 93667 TDA7386 → /62E and /62L 8700 9322 129 9367 TDA7386 → /62E and /62L 8701 9322 129 9367 TDA7386 → /62E and /62L 8701 9322 129 9367 TDA7386 → /62E and /62L 8701 9322 129 9367 TDA7386 → /62E and /62L 8702 5322 130 60159 BC846B 8703 4822 209 16279 SAA1305T 8704 5322 130 60159 BC846B 8706 4822 130 60159 BC846B 8702 5322 130 60159 BC846B 8702 5322 130 60159 BC846B 8702 5322 130 60159 BC846B 8703 4822 130 60159 BC846B 8704 882 130 60373 BC856B 8700 9322 130 60159 BC846B 8700 822 130 60159 BC846B						
6404						
8500 4822 130 11397 BAS316 6604 4822 130 10185 UDZS5.6B 6501 4822 130 10185 UDZS5.6B 6605 4822 130 10185 UDZS5.6B 6605 4822 130 10185 UDZS5.6B 6503 4822 130 11397 BAS316 6606 4822 130 10183 UDZ33.8B 6505 4822 130 11397 BAS316 6800 4822 130 11149 UDZ13B 6505 4822 130 101839 BAS316 6800 4822 130 11149 UDZ13B 6505 4822 130 60159 BC846B 7204 5322 130 60159 BC846B 7205 5322 130 60159 BC846B 7206 5322 130 60159 BC846B 7300 5322 130 60159 BC846B 7301 9322 129 93667 TDA7385 → 62/F/P/R/T/Z 7301 9322 129 93667 TDA7385 → 62/F/P/R/T/Z 7301 9322 129 80667 TDA7386 → /62E and /62L 7400 9352 629 23118 TDA36081H/N3 7401 5322 130 60159 BC846B 7402 5322 130 60159 BC846B 7405 5322 130 60159 BC846B 7406 4822 130 60373 BC856B 7501 3111 117 41220 IC TMP93CW44DF 7502 5322 130 60159 BC846B 7502 5322 130 60159 BC846B 7502 5322 130 60159 BC846B 7503 4822 130 60159 BC846B 7503 5322 130 60159 BC846B	6403	4822 130 11397	BA5310	0002	4822 130 10000	UDZ20B
### BC2 130 10185 UDZS5.6B 6606 4822 130 10185 UDZS5.6B 6503 4822 130 111397 BAS316 6606 4822 130 10838 UDZ3.3B 4822 130 11397 BAS316 6800 4822 130 10838 UDZ3.3B UDZ3.3B 6505 4822 130 11397 BAS316 6800 4822 130 11149 UDZ13B UDZ13B UDZ13B UDZ13B UDZ13B UDZ3.3B 4822 130 60159 BC846B 7205 5322 130 60159 BC846B 7205 5322 130 60159 BC846B 7206 9352 639 60557 IC SM SAA7708H/N203 7300 5322 130 60159 BC846B 7301 9322 129 80667 TDA7385 >> 62/F/P/R/T/Z 7301 9322 129 80667 TDA7386 >> /62E and /62L 7400 9352 629 23118 TDA3608TH/N3 7401 5322 130 60159 BC846B 7402 5322 130 60159 BC846B 7402 5322 130 60159 BC846B 7402 5322 130 60159 BC846B 7405 6322 130 60159 BC846B 7406 4822 130 60159 BC846B 7501 111 117 4120 IC TMP9SCW44DF 7502 5322 130 60159 BC846B 7600 9322 133 13668 2SB1184-R 7601 5322 130 60159 BC846B 7600 9322 130 60159 BC846B	6404	4822 130 11397				
6505 4822 130 11397 BAS316 6606 4822 130 10838 UDZ3.3B 4822 130 11397 BAS316 6600 4822 130 11149 UDZ13B ■■■ ■■■■ ■■■■■■■■■■■■■■■■■■■■■■■	6500	4822 130 11397	BAS316	6604	4822 130 10656	
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